

Bio Data

1. **Name** : Dr. Raje Sengar
2. **Father's Name** : Sh. Hariom Singh Chouhan
3. **Date of Birth** : 21st August 1983
4. **Permanent Address:** RMP Nagar Phase 2, Teelakhedi Road,
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5. Educational qualifications :

S.No.	Degree	Year	University	Div./ Marks obtained	Subjects
1	B.Sc.	2004	R.D.V.V. Jabalpur	II, 59 %	Chemistry, Botany, Zoology
2	M.Sc.	2006	R.D.V.V. Jabalpur	I, 65 %	Chemistry
3	Ph.D.	2011	R.D.V.V. Jabalpur		Chemistry

6. Experience:

Organization	Position	Period	Nature of duties
S.A.T.I., Vidisha	Contract Lecturer (Assistant Professor)	31.08.21 --- working	Teaching/ Valuation/Academic duties
S.A.T.I., Vidisha	Contract Lecturer (Assistant Professor)	20.08.15 -- 30.06.17	Teaching
R.G.P.V., Bhopal	Contract Lecturer (Assistant Professor)	01.02. 15 – 03.05.15	Teaching
L.N.C.T., Jabalpur	Assistant Professor	09.03.11 – 31.03.15	Teaching
St. Aloysius Autonomous College, Jabalpur	Assistant Professor	09.9.10 – 28.02.11	Teaching

7. Area of Interest:

- Engineering Chemistry
- Environmental Engineering
- Nanoscience & Nanotechnology, Drug delivery
- Physical Chemistry,
- Polymer Chemistry,
- Pharmaceutical Chemistry,
- Analytical Chemistry,
- Industrial Chemistry,
- Instrumentation

- Organic Chemistry

8. Administrative experience (at SATI, Vidisha):

- (a) IQAC cell member, since 2023 onwards
- (b) Member BOS Applied Chemistry.
- (c) Departmental Library Coordinator.
- (d) Tutor Guardian of M.Sc. Applied Chemistry.

9. Skills/Expertise

- Work knowledge in Nano-science and technology.
- Experience in Synthesis of Nanoparticles, Advanced drug delivery using nanovehicles, Particle size analysis.
- Different Defluoridation techniques, Arsenic, Chromium and Lead removal from water
- Water-Treatment and testing using different physicochemical techniques.
- Expert in different characterization techniques like FT-IR Spectroscopy, X-Ray Diffraction, Transmission Electron Microscopy, Field Emission-Scanning Electron Microscopy, UV-Visible spectrophotometer. Zeta Sizer.

10. List of Research Papers

1. Research Articles

1. Chouhan R, Bajpai A K. 2009. An In-vitro Release Study of 5-Fluoro-Uracil (5-FU) From Swellable Poly-(2-Hydroxyethyl methacrylate) (PHEMA) Nanoparticles, J. Mater. Sci: Mater. Med., 2009, 20: 1103-1114.
2. Chouhan R, Bajpai A K. 2009. An In-Vitro Dynamic Study of Release of Doxorubicin (anticancer drug) from Poly-(2-Hydroxyethyl methacrylate) (PHEMA) Nanoparticles, J. Nanobiotechnol, 7: 5.
3. Chouhan R, Bajpai A K. 2010. Release Dynamics of Ciprofloxacin (CFx) From Swellable Nanocarriers of Poly-(2-Hydroxyethyl methacrylate) (PHEMA): An In-Vitro Study, Nanomedicine: Nanotechnology, biology and medicine, 6(3): 453-462.
4. Choubey R, Chouhan R, Bajpai A K. 2019. Facile Synthesis of Silver Hydroxyapatite (AgHAP) Reinforced Nanocomposites of Poly (styrene)-Poly (methylmethacrylate) and Study of Their Mechanical and Blood-Compatible Behavior, Chemistry Select, 4, 10983–10994.

5. Choubey R, Chouhan R, Bajpai A K, Bajpai J, Singh S K. 2021. Silver hydroxyapatite (AgHAP) reinforced nanocomposites of poly (methyl methacrylate)- poly (ϵ -caprolactone) as hybrid orthopedic materials, *International Journal of Polymeric Materials and Polymeric Biomaterials*, 70:11, 782-796.

2. Review Article

1. Chouhan R, Saini Rajesh K, Bagri Laxmi P, Bajpai AK. 2012. Strategies of Targeting Tumors and Cancers, *Journal of Cancer Research Updates*, 1, 129-152.

3. Book Chapters

1. Chouhan R, Kankane S, Goswami S, Bajpai AK. 2013. Biological Stimulus responsive hydrogels, in *Polymeric biomaterials*, CRC Press Taylor & Francis, Editors Severian Dumitriu, Valentin I. Popa, - 3 rd

2. Chouhan R, Mann G Kaur, Bajpai J, Bajpai AK. 2014. Polysaccharide-Based Nanocarriers: Anticancer Drug Delivery in *Encyclopedia of Biomedical Polymers & Polymeric Biomaterials*, Editor-in-Chief Munmaya K. Mishra, Richmond, Virginia, CRC Press Taylor & Francis.

3. Chouhan R, Goswami S, Bajpai AK. 2017. Recent advancements in oral delivery of insulin: From challenges to solutions in *Nanostructures in Therapeutic medicine*. Elsevier Publications. pp 435-465.